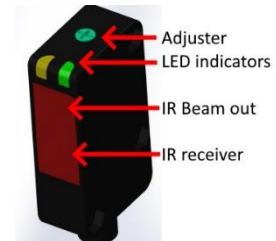




## Infra-Red Sensor set up

### We use two types Diffuse and Reflective

- **Diffuse** – does not need a reflector but has variable range – short range (1.5m) for black (or muddy) surfaces and up to 6m for white or reflective surfaces. If it catches a reflective object then the gate stays up.
  - **Green LED indicates sensor on**
  - **Orange LED indicates obstruction detected**
- **Reflective** - needs a reflector but this defines the area it works in. Very sensitive in direction so will not work if knocked out of line with reflector-gate stays up. Range up to 8m
  - **Green LED indicates sensor on**
  - **Orange LED indicates reflector seen and so NO obstruction**
  - **Lining up the reflective sensor with the reflector -see notes at end**



Gate unit On/Off switch is the internal toggle switch just above gate unit battery. Up is Off.

Auto open On/Off switch is the toggle switch on the side of the battery box. Up is Off.

Before checking out sensor operation only work on one unit at a time so turn the other unit AND any Auto open device that may be present.

#### 1. Diffuse sensor used in Auto close – (no reflector)

- a. When gate turned on ONLY the Green LED should flash momentarily. If the Orange LED also flashes the sensor has seen something and the unit will not enter auto close mode. To fix remove obstruction (could be you) or adjust sensor angle then turn unit off and on again.
- b. ONLY the green LED comes on when the gate is up and trying to close.
- c. If the sensor sees an obstruction then the orange LED will flash and both LEDs (green and orange) will go out and the gate will reverse to up position and restart the closing process. (Green LED on)
- d. If having started to close the sensor causes the gate to go back up three times then it goes to sleep in the up position – re-activate with fob down button or turn off and on again.

#### 2. Diffuse sensor used in Auto open – (no reflector)

- a. ONLY the green LED flashes on (0.2 secs) and off (0.5secs)
- b. If an obstruction is seen Orange LED also lights momentarily, both sensors go off, up signal sent to gate, green LED starts flashing again after 5 seconds.



3. Reflective sensor used in auto close – (reflector on opposite gate post)
  - a. When gate turned on using internal toggle switch BOTH the Green LED AND Orange LED should flash momentarily. If only the Green LED flashes the gate has seen something and the unit will not enter auto close mode. To fix remove obstruction (could be you) or adjust sensor angle so the sensor sees the opposite reflector.
  - b. The green and orange LEDs come on when the gate is up and trying to close.
  - c. If the sensor sees an obstruction then the orange and Green LEDs will go out, the gate will reverse to up position and restart the closing process. Both LEDs on.
  - d. If having started to close the sensor causes the gate to go back up three times then it goes to sleep in the up position – re-activate with fob down button or turn off and on again.
4. Reflective used in Auto open – (reflector opposite side of drive)
  - a. The green and orange LEDs flash on (0.2 secs) and off (0.5secs)
  - b. If an obstruction is seen both LEDs go off, up signal sent to gate, green and orange sensor starts flashing again after 5 seconds.

### **Lining up the reflective sensor with the reflector**

- Auto close set up
  - The sensor only comes on so you need to fool the gate that the reflector is present.
  - Either use another reflector you may have or unscrew the reflector on the opposite post
  - Hold the reflector in front of the sensor and turn the gate unit off and on again.
  - Remove the reflector or screw it back in place and operate the gate with the fob
  - The sensor will now come on and stay on with only the Green LED showing
  - Adjust the sensor up and down and side to side until the orange LED lights (should be constant – it will work if it is flashing but not ideal)
  - Tighten sensor in bracket
- Auto open set up
  - Where there is a button on the front of the Wiska box holding the IR unit press and hold the button. The Green LED lights
  - Where there is not a button then the process is slower in that you need to wait for each flash.
  - Adjust the sensor in bracket up and down and side to side until the orange LED lights (should be constant – it will work if it is flashing but not ideal)
  - Release button